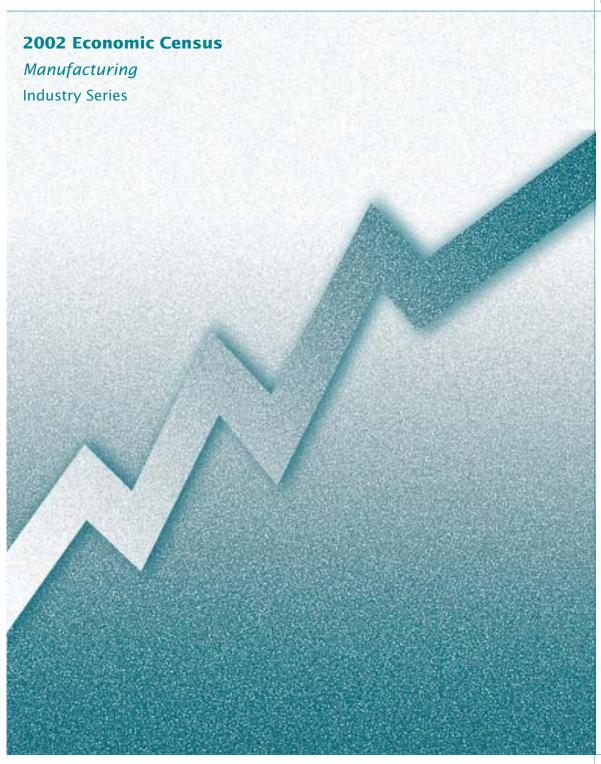
# Heating Equipment (Except Warm Air Furnaces) Manufacturing: 2002

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U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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## Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>		All			Production workers				Total	Total	Total capital
	Com- panies <sup>2</sup>		Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333414, Heating equipment (except warm											
air furnaces) manufacturing2002	390	415	22 303	755 574	14 375	29 087	373 475	2 247 873	1 701 584	3 968 649	r88 292
2001	N	N	24 472	838 998	16 136	32 007	428 232	2 142 526	1 937 387	4 113 880	143 751
2000	N	N	26 010	857 834	17 324	33 538	435 655	2 320 046	2 014 847	4 315 407	149 396
1999	N	N	24 880	808 546	16 734	32 491	413 398	2 237 244		4 099 822	140 280
1998	N	N	23 510	719 194	15 400	30 039	354 384	1 964 955	1 632 354	3 738 536	273 737
1997	441	468	24 597	755 114	16 088	31 910	375 893	2 068 353	1 650 129	3 707 615	89 555

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

## Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establi	shments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
333414, Heating equipment (except warm air furnaces) manufacturing												
United States. California Connecticut Illinois Indiana Kentucky Massachusetts Michigan Minnesota Missouri New York	2 1 7 1 1 6 1 - 8 4	415 54 7 16 17 3 11 17 26 9	167 22 3 6 8 3 7 4 9 3	22 303 3 070 240 700 1 852 1 058 739 309 917 538 1 191	755 574 100 989 9 005 28 764 72 598 33 712 28 803 14 118 28 263 14 799 38 419	14 375 1 917 154 372 1 221 670 405 162 536 382 803	29 087 4 199 306 626 2 526 1 265 851 327 1 100 723 1 610	373 475 49 146 3 560 10 147 37 799 14 139 11 203 4 914 14 603 8 135 17 441	2 247 873 270 823 29 935 63 622 274 880 99 672 58 012 37 347 136 002 45 962 125 070	1 701 584 212 931 19 658 44 108 223 428 85 525 43 465 27 132 91 919 64 351 92 130	3 968 649 487 002 49 838 113 280 493 959 187 907 102 542 62 381 228 466 112 116 218 952	188 292 18 588 1692 12 757 13 882 14 648 11 784 1498 17 719 11 796 12 505
North Carolina . Ohio Oklahoma Pennsylvania Rnode Island Tennessee Texas Washington Wisconsin	6 -7 2 - 7 3 5	9 18 6 32 3 11 12 14 15	6 9 2 18 2 6 3 6 7	588 1 123 125 2 005 168 1 218 533 988 543	16 824 44 219 4 533 72 974 31 750 17 686 34 547 20 425	440 611 83 1 177 147 964 315 673 336	926 1 305 164 2 428 317 1 741 610 1 355 645	12 278 18 019 2 161 36 549 2 625 19 972 7 934 19 210 8 394	46 553 87 430 12 164 223 327 16 356 95 260 124 867 79 313 55 511	34 543 90 263 7 850 182 961 8 348 65 637 30 271 68 548 34 367	81 454 180 653 20 014 406 637 25 427 163 036 155 430 147 002 87 717	1953 14 778 1265 117 340 1360 12 735 11 362 11 600 1990

<sup>&</sup>lt;sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

## Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333414, Heating equipment (except warm air furnaces) manufacturing	
Companies <sup>1</sup> number	390
All establishments <sup>2</sup>	415 248 111 56
All employees³         number           Total compensation         \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	22 303 951 828 755 574 196 254
Production workers, average for year	14 375 13 846 14 202 14 929 14 505
Production worker hours	29 087 373 475
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	1 701 584 1 467 381 178 163 12 051 24 388 19 601
Quantity of electricity purchased for heat and power	361 056 -
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	3 968 649 3 423 980 234 523 310 146 282 886 4 341 22 919
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	94 3 856 924 3 423 980 432 944
Coverage ratiopercent.	89
Value added\$1,000	2 247 873
Total inventories, beginning of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	574 769 250 723 81 541 242 505
Total inventories, end of year         \$1,000           Finished goods inventories         \$1,000           Work-in-process inventories         \$1,000           Materials and supplies inventories         \$1,000	535 990 233 424 79 648 222 918
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000           Total capital expenditures (new and used)         \$1,000           Buildings and other structures (new and used)         \$1,000           Machinery and equipment (new and used)         \$1,000           Automobiles, trucks, etc., for highway use         \$1,000           Computers and peripheral data processing equipment         \$1,000           All other expenditures for machinery and equipment         \$1,000           Total retirements         \$1,000           Gross value of depreciable assets at end of year         \$1,000	'1 054 511 '88 292 '18 801 '69 491 '2 552 '6 193 '60 746 '49 648 '1 093 155
Depreciation charges during year\$1,000.	'76 451
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	43 490 25 129 18 361
Total other expenses <sup>4</sup> \$1,000.  Response coverage ratio <sup>5</sup> percent.  Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000.  Communications services <sup>4</sup> \$1,000.  Legal services <sup>4</sup> \$1,000.  Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000.  Advertising and promotional services <sup>4</sup> \$1,000.  Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000.  Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000.  Management consulting and administrative services <sup>4</sup> \$1,000.  Taxes and license fees <sup>4</sup> \$1,000.  All other expenses <sup>4</sup> \$1,000.	360 974 73 19 668 8 607 7 794 4 916 64 664 4 216 3 619 7 223 8 209 232 059

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	ers		Total	Total	Total
		All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	Total value of shipments (\$1,000)	capital expendi- tures (\$1,000)
333414, Heating equipment (except warm air furnaces) manufacturing											
All establishments  Establishments with —  1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 100 to 29 employees 20 to 49 employees 20 to 499 employees 250 to 499 employees 250 to 499 employees 1,000 to 2,499 employees 1,000 to 2,499 employees 2,500 employees or more	9 8 3 2 4 2 2 -	415 131 63 54 55 56 33 18 5	22 303 269 388 742 1 858 4 215 5 427 6 239 3 165	755 574 9 059 14 616 27 809 67 982 142 780 187 885 215 690 89 753	14 375 187 257 461 1 197 2 796 3 487 4 060 1 930	29 087 327 524 893 2 439 5 592 6 868 8 496 3 948	373 475  4 538 6 964 12 120 30 516 70 136 91 381 114 721 43 099 —	2 247 873 24 395 38 623 65 036 158 514 474 817 459 213 687 512 339 763	1 701 584 16 002 27 486 42 683 118 594 317 704 350 951 526 394 301 770	3 968 649 40 513 65 911 108 166 276 763 796 590 815 719 1 221 405 643 582	'88 292 '539 '1 436 '6 971 '4 677 '11 483 '25 370 '15 263 22 553
Administrative records <sup>4</sup>	9	179	719	25 791	493	942	12 681	68 702	45 845	114 543	<sup>r</sup> 1 621

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333414	Heating equipment (except warm air furnaces) manufacturing	415	22 303	755 574	14 375	29 087	373 475	2 247 873	1 701 584	3 968 649	<sup>7</sup> 88 292
3334141	Cast iron heating boilers, radiators, and convectors (except parts)	25	3 065	118 899	1 858	3 997	56 908	494 188	313 058	807 522	r9 380
3334143	Domestic heating stoves (except electric and parts)	43	6 410	193 733	4 460	8 810	106 890	592 931	553 197	1 156 388	r18 342
3334145 3334147	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts) Floor and wall furnaces, unit	21	1 604	60 450	1 059	2 238	31 217	169 623	113 911	283 123	r14 548
333414 333414A	heaters, gas-fired infrared heaters, and mechanical stokers  Other heating equipment, except	31 6	2 391 376	89 782 13 594	1 515 232	3 081 493	41 481 6 072	224 567 28 362	157 807 23 894	382 853 52 918	r6 224 r752
	electric (including parts for nonelectric heating equipment and oil burners)	80	7 051	232 432	4 324	8 645	107 937	632 182	461 001	1 100 723	r35 673

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

#### **Products Statistics: 2002 and 1997** Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product		Number of companies with		Product s	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
333414	Heating equipment (except warm air furnaces) manufacturing	N N	X X	X X	3 856 924 3 579 512
3334141	Cast iron heating boilers, radiators, and convectors (except parts)	N	×	×	689 301
33341411	Cast iron boilers and radiators, and aluminum and other nonferrous metal radiators and convectors, including baseboard and finned tube type, residential, and special type (except electric)	N N	x x	x x	391 786 659 979
3334141101	Gas-fired cast iron boilers (except parts)	N 12	XX	X S	387 687 233 213
3334141106	Other cast iron boilers (except electric and parts)	9 10	XX	90.7 S	97 504 188 221
3334141111	Cast iron and steel radiators and convectors (except parts)thousands2002	10 11	XX	87.1 S	99 477 173 180
3334141116	Aluminum and other nonferrous metal radiators and convectors, including baseboard and finned tube type, residential, industrial, and special type (except electric and parts)	6	x x	P11 737.5	148 180 65 365
3334141Y	Cast iron heating boilers, radiators, and convectors (except parts), nsk	6 N	x x	š	42 526 29 322
3334141YWV	Cast iron heating boilers, radiators, and convectors (except	N	x	x	4 099
33341411VVV	parts), nsk	N N	X	X	29 322 4 099
3334143	Domestic heating stoves (except electric and parts)	N N	X	X X	845 189 556 449
33341431	Heating stoves	N N	x X	x X	844 539 540 662
3334143101	Gas fueled (all types) domestic hearth appliances (except electric and parts), B-vent, direct vent, vent-free (freestanding and fireplace insert)	22	x	s l	195 665
3334143106	Vented log sets	18 11	x X	P162.0 S	81 024 36 073
3334143111	Vertiled log sets	8 18	X	385.3 P310.3	14 387 61 969
3334143116	B-vent built-in-appliances	12 5	X X X X	1 256.5 S	51 800 15 483
3334143121	Direct vent built-in-appliances	3 6	ŷ	D D	D D
3334143126	Vent-free built-in-appliances	3 5	X X	D S	D 12 347
3334143131	Coal, kerosene, gasoline, and fuel oil domestic heating stoves (except parts)	1	x x	D	12 347 D
3334143136	Freestanding wood fireplaces and domestic heating stoves (all types), including circulating and radiants (except	5	X	922.7	6 063
2004440444	parts)	19 19	X	S ₽166.3	276 846 74 567
3334143141	Wood pellet fuel-burning domestic heaters (except parts)thousands 2002	6 8	XX	S   P54.5	38 748 53 023
3334143146	Heat exchangers and zero clearance (factory built) domestic wood fireplaces	2 5	X	D D	D D
3334143151	Domestic wood fireplace inserts	14 11	X	S 96.0	53 889 36 969
3334143Y 3334143YWV	Domestic heating stoves, except electric (except parts), nsk	N N	X X	X X	650 15 787
	nsk	N N	XX	X	650 15 787
3334145	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts)	N N	X	X X	242 621 219 582
33341451	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts)	N N	×	×	234 370 205 563
3334145101	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts), 400,000 Btu per hour or less	18	x		119 437
3334145111	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts), 400,001 Btu per hour or more (including scotch type and horizontal fire box)	19	x	X X 418.4	98 940 114 933
3334145Y	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts), nsk	13 N	x x	24.8	106 623 8 251
3334145YWV	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts), nsk	N N	x x	X X	14 019 8 251
3334147	1997 Floor and wall furnaces, unit heaters, gas-fired infrared heaters,	N	X	X	14 019
33341471	and mechanical stokers	N N	X X	X X	441 886 526 335
2004447404	heaters, and mechanical stokers (including parts)	N N	X	X	422 178 505 445
3334147101	Floor and wall furnaces (gas and oil)	10 13	X	X X X X	94 040 94 412
3334147106 3334147111	Gas-fired unit heaters, 400,000 Btu per hour or less	20 13	XX	×	175 007 197 622
	(blower) and propeller fan-type unit heaters (except electric)	10 5	X	X X	19 848

See footnotes at end of table.

#### Products Statistics: 2002 and 1997—Con. Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product		Number of companies with		Product ship	pments
code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
333414	Heating equipment (except warm air furnaces) manufacturing—				
3334147	Con. Floor and wall furnaces, unit heaters, gas-fired infrared heaters, and mechanical stokers—Con.				
33341471	Floor and wall furnaces, unit heaters, gas-fired infrared				
3334147116	heaters, and mechanical stokers (including parts)—Con. Gas-fired infrared heaters	14	×	S	59 048
3334147121	Mechanical stokers (except electric)	15 4	X	429.5 X	87 500 4 971
3334147126	Parts for floor and wall furnaces, unit heaters, gas-fired infrared heaters, and mechanical stokers	4 21	X X	x x	69 26 <sup>2</sup>
3334147Y	Floor and wall furnaces, unit heaters, infrared heaters, and	16	$\hat{x}$	â	95 706
00041471	mechanical stokers (including parts), nsk	N N	×	X	19 708 20 890
3334147YWV	Floor and wall furnaces, unit heaters, infrared heaters, and mechanical stokers (including parts), nsk	N	x	x	19 708
	1997	N	×	X	20 890
333414A	Other heating equipment, except electric (including parts for nonelectric heating equipment and oil burners)	N	x	x	1 416 649
333414A1	Other heating equipment, except electric (including parts for	N	X	X	
	nonelectric heating equipment and oil burners)	N N	X	X	1 416 649 N
333414A101	Oil burners	18 N	XX	X X	157 344 N
333414A106	Parts and attachments for oil burners	14 N	XX	X X	49 220 N
333414A111	Gas burners and gas conversion burners (including parts), 400,000 Btu per hour or less	17	X	S	89 765
333414A116	Gas burners and gas conversion burners (including parts), 400,001 Btu per hour or more	N 18	x x	N X	104 697
333414A121	Parts and attachments for gas burners (sold separately)	N 11	X X	x x	35 491
333414A126	1997 Heating unit ventilators (except electric)	N 9	X	X X X	70 619
333414A131	Nonelectric prefabricated metal fireplaces for commercial	N	X		N
	and industrial use	4 N	XX	S N	15 946 N
333414A136	Solar energy collectors (water or air)	7 N	XX	XX	35 304 N
333414A138	Electric swimming pool heaters	6 N	X	×	114 854 N
333414A140	Wall and baseboard heating units for permanent installation 2002.	11	X	x	172 307 N
333414A150	Parts, accessories, and attachments for wall and baseboard heating units 2002.	N   3	X X	X	• •
333414A151	Other heating equipment, including dual-fired gas and oil	N	â	X	11 042 N
	burners, heat transfer (blast) coils, range boilers, expansion tanks, direct-fired water heater tanks (including				
	parts), except electric	70 N	X	X	560 060 N
333414AY	Other heating equipment, except electric (including parts for nonelectric heating equipment and oil burners), nsk	N	x	x	
333414AYWV	Other heating equipment, except electric (including parts for	Ñ	x	x	N
	nonelectric heating equipment and oil burners), nsk	N N	××	X	_ N
333414W	Heating equipment (except warm air furnaces) manufacturing,			.,	
00044414114	nsk, tōtal	N N	XX	X	221 278 313 917
333414WY	Heating equipment (except warm air furnaces) manufacturing, nsk, total	N N	X	X	221 278 313 917
333414WYWW	Heating equipment (except warm air furnaces) manufacturing, nsk, for nonadministrative-record	N	^	^	313 917
	establishments	N N	X	X	110 728 210 081
333414WYWY	Heating equipment (except warm air furnaces) manufacturing, nsk, for administrative-record	IN	^	^	210 081
	establishments	N N	X	X	110 550 103 836

<sup>&</sup>lt;sup>1</sup>For additional detail, see Current Industrial Report MA335E, Electric Housewares and Fans.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

## Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3334141	Cast iron heating boilers, radiators, and convectors (except parts)	
	United States	689 301
	1997 New York	391 786 79 718 N
3334143	Domestic heating stoves (except electric and parts)	
	United States	845 189
	1997 California	556 449 101 927 59 617 12 134 20 803 56 845
	1997 North Carolina	59 617 12 134
	1997 Tennessee	20 803 56 845
	1997 Washington	140 153 109 999
	1997	89 634
3334145	Steel heating boilers (15 p.s.i. or less), and all other hot water heating boilers (except parts)	
	United States	242 621 219 582
	Minnesota	12 169 N
	Pennsylvania. 2002. 1997	57 039 50 847
3334147	Floor and wall furnaces, unit heaters, gas-fired infrared heaters, and mechanical stokers	
	United States. 2002.	441 886
	1997 California 2002	526 335
	1997 Illinois 2002	31 199 N 31 420
	1997	N
	1997	52 913 N
	Michigan	36 193 70 109 7 677
	New York	N
	Ohio	47 319 10 805
333414A	Other heating equipment, except electric (including parts for nonelectric heating equipment and oil burners)	
	United States	1 416 649
	1997   California	N 121 976
	1997 Illinois	N 58 584
	1997 Indiana	N 52 497
	1997 Massachusetts	N 44 894
	1997 Michigan	N 18 959
	1997 Minnesota 2002.	N 27 886
	1997	N
	New York     2002.       1997.     1997.	83 937 N
	North Carolina	54 394 N
	Ohio	130 986 N
	Oklahoma	12 827 N
	Pennsylvania. 2002. 1997.	111 577 N
	Tennessee	87 542 N
	Wisconsin 1997	32 909

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333414	Heating equipment (except warm air furnaces) manufacturing		
00900001	Total materials	X	1 467 381
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X X X	1 496 258 28 499
33290005	Fabricated metal pipe (excluding castings and forgings)	X	20 071 11 863
00230003	1997	x	N N
33341403	Metal parts and attachments specially designed for heating equipment (excluding electric)	X	32 194 N
33291905	Fabricated metal valves and pipe fittings	X X X	40 600 N
33200037	All other fabricated metal products (excluding forgings, metal stampings, valves and pipe fittings,		
	fabricated metal pipe, bolts, nuts, screws, washers, and rivets)	X X	138 235 242 958
33210000	Forgings	X	4 911
33151001	lron and steel castings (rough and semifinished)	X	N 106 137
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X X X X X	73 431 9 853
	1997	X	N
33152009	Other nonferrous castings (rough and semifinished)	X	3 081
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	N 22 218
33120016	Steel sheet and strip (including tinplate)	X X X	23 175 148 181
	1997	Х	N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X X	3 900 N
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars,		**
	bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X X	10 146 21 501
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 307
	1997	X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	v	10.000
	1997	X X	10 980 N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	x	3 393
332000AC	1997	X X X	N 6 503
002000710	1997	x	N
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	38 659 N
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X X X X X	101 732 115 062
32221001	Paperboard containers, boxes, and corrugated paperboard	X	37 451
	1997		42 994
00970099	All other materials and components, parts, containers, and supplies	X X	512 930 691 959
00971000	Materials, ingredients, containers, and supplies, nsk	x x	190 608 265 107

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.